ELSEVIER

Journal of Non-Crystalline Solids 181 (1995) 311–312

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Author index

Adriaenssens, G.J., see Arkhipov, V.I. 181 (1995) 274
Affatigato, M., D. Osborne and R.F. Haglund Jr., Changes in the surface morphology of glass due to abrasion and the deposition of sol–gel thin films 181 (1995) 27
Aggarwal, I.D., see Jewell, J.M. 181 (1995) 189
Agrawal, R.C., R. Kumar, R.K. Gupta and M. Saleem, [0.75AgI : 0.25AgCl] quenched system: a better choice as host compound in place of AgI to prepare Ag^+ ion conducting superionic glasses and composites 181 (1995) 110
Arkhipov, V.I. and G.J. Adriaenssens, Thermally stimulated currents in amorphous semiconductors 181 (1995) 274

Balasubramanian, S. and K.J. Rao, A molecular dynamics study of the mixed alkali effect in silicate glasses 181 (1995) 157
Birnie III, D.P., see Kim, S.J. 181 (1995) 291

Chatterjee, P., see Debnath, M. 181 (1995) 301
Clare, A.G., see King, W.A. 181 (1995) 231
Cogordan, J.A., L.E. Sansores and A.A. Valladares, Amorphous clusters. III. The electronic structure of Si clusters with B and Al impurities 181 (1995) 135
Coolbaugh, M.T., see Schreiber, H.D. 181 (1995) 225

Day, D.E., see Reidmeyer, M.R. 181 (1995) 201
Debnath, M. and P. Chatterjee, Effect of an insulating interfacial layer at the metal (or TCO)/semiconductor front contact on the performance of a-Si : H solar cells 181 (1995) 301
Desai, J.D. and C.D. Lokhande, Solution growth of microcrystalline Sb_2S_3 thin films from thioacetamide bath 181 (1995) 70
de Waal, H., see Yan, Y. 181 (1995) 283
Dirken, P.J., see Kloprogge, J.T. 181 (1995) 151

Faber, A.J., see Yan, Y. 181 (1995) 283
Faupel, F., see Rätzke, K. 181 (1995) 261
Friberg, S.E., see Jones, S.M. 181 (1995) 39

Geus, J.W., see Kloprogge, J.T. 181 (1995) 151
Gupta, R.K., see Agrawal, R.C. 181 (1995) 110
Gupta, S., N. Khanijo and A. Mansingh, The influence of V^{4+} ion concentration on the EPR spectra of vanadate glasses 181 (1995) 58

Haglund Jr., R.F., see Affatigato, M. 181 (1995) 27

James, P.F., Glass ceramics: new compositions and uses 181 (1995) 1
Jansen, J.B.H., see Kloprogge, J.T. 181 (1995) 151
Jewell, J.M. and I.D. Aggarwal, Structural influences on the hydroxyl spectra of barium gallogermanate glasses 181 (1995) 189
Jones, S.M. and S.E. Friberg, Microemulsion-gel glasses doped with coumarin laser dyes 181 (1995) 39

Kaji, H., K. Nakanishi and N. Soga, Formation of porous gel morphology by phase separation in gelling alkoxy-derived silica. Affinity between silica polymers and solvent 181 (1995) 16
Kalinin, S.V., see Vertegel, A.A. 181 (1995) 146
Kamiya, K., see Nasu, H. 181 (1995) 83
Khanijo, N., see Gupta, S. 181 (1995) 58
Khlopkin, M.N., see Syrykh, G.F. 181 (1995) 244
Kim, S.J., D.P. Birnie III, B.J.J. Zelinski and D.R. Uhlmann, Practical limits on upgradient crystallization 181 (1995) 291
King, W.A., A.G. Clare and W.C. LaCourse, Laboratory preparation of highly pure As_2Se_3 glass 181 (1995) 231
Kirchhof, J., S. Unger, K.-F. Klein and B. Knappe, Diffusion behaviour of fluorine in silica glass 181 (1995) 266
Klein, K.-F., see Kirchhof, J. 181 (1995) 266
Kloprogge, J.T., P.J. Dirken, J.B.H. Jansen and J.W. Geus, One- and two-dimensional ^{27}Al MAS-NMR study of basic aluminum sulfate 181 (1995) 151
Knappe, B., see Kirchhof, J. 181 (1995) 266
Komatsu, T., see Sato, R. 181 (1995) 64

Kumar, R., see Agrawal, R.C. 181 (1995) 110
Kurachi, K., see Nasu, H. 181 (1995) 83

LaCourse, W.C., see King, W.A. 181 (1995) 231
Lee, K.B. and K.H. Lee, Photo-induced changes of thermally stimulated conductivity spectra in undoped hydrogenated amorphous silicon 181 (1995) 116
Lee, K.H., see Lee, K.B. 181 (1995) 116
Lin, J., see Zeng, H.C. 181 (1995) 49
Loh, F.C., see Zeng, H.C. 181 (1995) 49
Lokhande, C.D., see Desai, J.D. 181 (1995) 70

Mansingh, A., see Gupta, S. 181 (1995) 58
Matsuoka, J., see Nasu, H. 181 (1995) 83
Matusita, K., see Sato, R. 181 (1995) 64
Mito, A., see Nasu, H. 181 (1995) 83
Mitsuyu, T., see Tanahashi, I. 181 (1995) 77
Mizutani, T., Compositional and structural modifications of amorphous SiO_2 by low-energy ion and neutral beam irradiation 181 (1995) 123

Nakanishi, K., see Kaji, H. 181 (1995) 16
Narducci, D., Stereochemical random networks. A contribution to a structurally aware hopping theory in oxide glasses 181 (1995) 251
Nasu, H., K. Kurachi, A. Mito, H. Okamoto, J. Matsuoka and K. Kamiya, Second harmonic generation from an electrically polarized TiO_2-containing silicate glass 181 (1995) 83

Ogata, Y., see Uchino, T. 181 (1995) 175
Okamoto, H., see Nasu, H. 181 (1995) 83
Oleynikov, N.N., see Vertegel, A.A. 181 (1995) 146
Osborne, D., see Affatigato, M. 181 (1995) 27

Rao, K.J., see Balasubramanian, S. 181 (1995) 157
Rätzke, K. and F. Faupel, Pressure dependence of cobalt diffusion in amorphous $Fe_{39}Ni_{40}B_{21}$ 181 (1995) 261
Reidmeyer, M.R. and D.E. Day, Phosphorus oxynitride glasses 181 (1995) 201

Sakka, S., Structure, properties and application of oxynitride glasses 181 (1995) 215
Saleem, M., see Agrawal, R.C. 181 (1995) 110
Sansores, L.E., see Cogordan, J.A. 181 (1995) 135
Sato, R., T. Komatsu and K. Matusita, Effect of Cu^{2+} ions on thermal stability and phase separation in $Bi_2Sr_2CaCu_2O_x$ glass 181 (1995) 64
Schreiber, H.D. and M.T. Coolbaugh, Solvations of redox ions in glass-forming silicate melts 181 (1995) 225
Shikida, A., see Zou, X. 181 (1995) 100
Simmons, J.H., see Swiler, T.P. 181 (1995) 238
Soga, N., see Kaji, H. 181 (1995) 16
Suetin, A.V., see Syrykh, G.F. 181 (1995) 244
Swiler, T.P., T. Varghese and J.H. Simmons, Evidence of chaotic behavior in computer simulations of fracture processes 181 (1995) 238
Syrykh, G.F., A.P. Zhernov, M.N. Khlopkin and A.V. Suetin, Structural relaxation of $Zr_{70}Be_{30}$ and $Zr_{67}Cu_{33}$ metallic glasses: low-energy vibrational modes, electron spectrum and superconductivity 181 (1995) 244

Tan, K.L., see Zeng, H.C. 181 (1995) 49
Tanahashi, I. and T. Mitsuyu, Preparation and optical properties of silica gels in which small gold particles were grown by photoreduction 181 (1995) 77
Teo, W.K., see Zeng, H.C. 181 (1995) 49
Toratani, H., see Zou, X. 181 (1995) 100
Toratani, H., see Zou, X. 181 (1995) 87
Tret'yakov, Yu.D., see Vertegel, A.A. 181 (1995) 146

Uchino, T. and Y. Ogata, Ab initio molecular orbital calculations on the electronic structure of phosphate glasses. Sodium phosphate glasses 181 (1995) 175
Uhlmann, D.R., see Kim, S.J. 181 (1995) 291
Unger, S., see Kirchhof, J. 181 (1995) 266

Valladares, A.A., see Cogordan, J.A. 181 (1995) 135
Varghese, T., see Swiler, T.P. 181 (1995) 238
Vertegel, A.A., S.V. Kalinin, N.N. Oleynikov and Yu.D. Tret'yakov, The fractal particles of iron (III) hydroxonitrate: from solution to solid state 181 (1995) 146

Yan, Y., A.J. Faber and H. de Waal, Luminescence quenching by OH groups in highly Er-doped phosphate glasses 181 (1995) 283
Yanagita, H., see Zou, X. 181 (1995) 100

Zelinski, B.J.J., see Kim, S.J. 181 (1995) 291
Zeng, H.C., J. Lin, W.K. Teo, F.C. Loh and K.L. Tan, Surface Ni^{2+} diffusion in sol–gel-derived tetragonal and monoclinic ZrO_2 matrices 181 (1995) 49
Zhernov, A.P., see Syrykh, G.F. 181 (1995) 244
Zou, X. and H. Toratani, Dynamics and mechanisms of up-conversion processes in Yb^{3+} sensitized Tm^{3+}- and Ho^{3+}-doped fluorozircoaluminate glasses 181 (1995) 87
Zou, X., A. Shikida, H. Yanagita and H. Toratani, Mechanisms of upconversion fluorescences in Er^{3+}, Tm^{3+} codoped fluorozircoaluminate glasses 181 (1995) 100

ELSEVIER

Journal of Non-Crystalline Solids 181 (1995) 313–316

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Subject index

Alloys
Defects, Diffusion, Glasses Containing Transition Metal Ions 181 (1995) 261

Amorphous Alloys
Electronic Structure, Superconductors, Thermal Properties 181 (1995) 244

Amorphous Semiconductors
Modelling, Solar Cells 181 (1995) 301

Catalysis
Chalcogenides, Optical Properties, Thin Films, X-ray Diffraction 181 (1995) 70

Chalcogenides
Catalysis, Optical Properties, Thin Films, X-ray Diffraction 181 (1995) 70

Chalcogenide Glasses
Infra-red Absorption, Optical Properties 181 (1995) 231

Colloids
Fractals, Light Scattering 181 (1995) 146
Optical Properties, Photoinduced Effects 181 (1995) 77

Conductivity
Hydrogen Effects, Photoinduced Effects, Silicon 181 (1995) 116

Coordination
Nuclear Magnetic Resonance, Oxides 181 (1995) 151

Crystallization
Densification, Ion Irradiation, Silica, Sputtering 181 (1995) 123
Glass Ceramics, Microstructure, Sol–Gel Processes 181 (1995) 1
Modelling, Nucleation 181 (1995) 291

Defects
Alloys, Diffusion, Glasses Containing Transition Metal Ions 181 (1995) 261
Density of States, Electrical Properties and Relaxation, Transient Effects 181 (1995) 274

Densification
Crystallization, Ion Irradiation, Silica, Sputtering 181 (1995) 123
Sol–Gel Processes, Structure 181 (1995) 16

Density of States
Defects, Electrical Properties and Relaxation, Transient Effects 181 (1995) 274

Dielectric Properties
Electron Spin Resonance, Glasses Containing Transition Metal Ions 181 (1995) 58

Diffusion
Alloys, Defects, Glasses Containing Transition Metal Ions 181 (1995) 261
Glasses Containing Transition Metal Ions, Oxides, Sol–Gel Processes 181 (1995) 49
Hydrogen Effects, XPS 181 (1995) 266

Electrical Properties and Relaxation
Defects, Density of States, Transient Effects 181 (1995) 274

Electron Spin Resonance
Dielectric Properties, Glasses Containing Transition Metal Ions 181 (1995) 58

Electronic Structure
Amorphous Alloys, Superconductors, Thermal Properties 181 (1995) 244
Silicon Alloys, Theory 181 (1995) 135

Fluorescence Spectra
Halide Glasses, Rare Earth Ions 181 (1995) 100

Fluorides
Luminescence, Optical Properties, Rare Earth Ions 181 (1995) 87

Fractals
Colloids, Light Scattering 181 (1995) 146

Gap States
Lasers, Sol–Gel Processes 181 (1995) 39

Germanates
Hydrogen in Glass, Infra-red Absorption, Structure 181 (1995) 189

Glass Ceramics
Crystallization, Microstructure, Sol–Gel Processes 181 (1995) 1

Glasses Containing Transition Metal Ions
Alloys, Defects, Diffusion 181 (1995) 261
Dielectric Properties, Electron Spin Resonance 181 (1995) 58
Diffusion, Oxides, Sol–Gel Processes 181 (1995) 49
Hopping, Theory 181 (1995) 251
Phase Separation, Thermal Properties, X-ray Diffraction 181 (1995) 64

Halide Glasses
Fluorescence Spectra, Rare Earth Ions 181 (1995) 100
Ionic Conductivity 181 (1995) 110

Hopping
Glasses Containing Transition Metal Ions, Theory 181 (1995) 251

Hydrogen Effects
Conductivity, Photoinduced Effects, Silicon 181 (1995) 116
Diffusion, XPS 181 (1995) 266
Luminescence, Rare Earth Ions, Relaxation 181 (1995) 283

Hydrogen in Glass
Germanates, Infra-red Absorption, Structure 181 (1995) 189

Infra-red Absorption
Chalcogenide Glasses, Optical Properties 181 (1995) 231
Germanates, Hydrogen in Glass, Structure 181 (1995) 189

Ion Irradiation
Crystallization, Densification, Silica, Sputtering 181 (1995) 123

Ionic Conductivity
Halide Glasses 181 (1995) 110

Lasers
Gap States, Sol–Gel Processes 181 (1995) 39

Light Scattering
Colloids, Fractals 181 (1995) 146
Sol–Gel Processes, Surface Analysis, Surface Reactions, Thin Films 181 (1995) 27

Luminescence
Fluorides, Optical Properties, Rare Earth Ions 181 (1995) 87
Hydrogen Effects, Rare Earth Ions, Relaxation 181 (1995) 283

Mechanical Properties
Metal–Non-metal Transition, Molecular Dynamics 181 (1995) 238
Neutron Diffraction, Nitridation, Nuclear Magnetic Resonance, Oxynitride Glasses 181 (1995) 215

Metal–Non-metal Transition
Mechanical Properties, Molecular Dynamics 181 (1995) 238

Microstructure
Crystallization, Glass Ceramics, Sol–Gel Processes 181 (1995) 1

Mixed-Alkali Effect
Molecular Dynamics 181 (1995) 157

Modelling
Amorphous Semiconductors, Solar Cells 181 (1995) 301
Crystallization, Nucleation 181 (1995) 291

Molecular Dynamics
Mechanical Properties, Metal–Non-metal Transition 181 (1995) 238
Mixed-Alkali Effect 181 (1995) 157
Phosphates, Structure 181 (1995) 175

Neutron Diffraction
Mechanical Properties, Nitridation, Nuclear Magnetic Resonance, Oxynitride Glasses 181 (1995) 215

Nitridation
Mechanical Properties, Neutron Diffraction, Nuclear Magnetic Resonance, Oxynitride Glasses 181 (1995) 215

Nitrogen
Phosphates, Structure 181 (1995) 201

Non-linear Optics
Optical Properties 181 (1995) 83

Nuclear Magnetic Resonance
Coordination, Oxides 181 (1995) 151
Mechanical Properties, Neutron Diffraction, Nitridation, Oxynitride Glasses 181 (1995) 215

Nucleation
Crystallization, Modelling 181 (1995) 291

Optical Properties
Catalysis, Chalcogenides, Thin Films, X-ray Diffraction 181 (1995) 70
Chalcogenide Glasses, Infra-red Absorption 181 (1995) 231
Colloids, Photoinduced Effects 181 (1995) 77
Fluorides, Luminescence, Rare Earth Ions 181 (1995) 87
Non-linear Optics 181 (1995) 83

Oxides
Coordination, Nuclear Magnetic Resonance 181 (1995) 151
Diffusion, Glasses Containing Transition Metal Ions, Sol–Gel Processes 181 (1995) 49
Reactions, Reduction, Solutions 181 (1995) 225

Oxynitride Glasses
Mechanical Properties, Neutron Diffraction, Nitridation, Nuclear Magnetic Resonance 181 (1995) 215

Phase Separation
Glasses Containing Transition Metal Ions, Thermal Properties, X-ray Diffraction 181 (1995) 64

Phosphates
Molecular Dynamics, Structure 181 (1995) 175
Nitrogen, Structure 181 (1995) 201

Photoinduced Effects
Colloids, Optical Properties 181 (1995) 77
Conductivity, Hydrogen Effects, Silicon 181 (1995) 116

Rare Earth Ions
Fluorescence Spectra, Halide Glasses 181 (1995) 100
Fluorides, Luminescence, Optical Properties 181 (1995) 87
Hydrogen Effects, Luminescence, Relaxation 181 (1995) 283

Reactions
Oxides, Reduction, Solutions 181 (1995) 225

Reduction
Oxides, Reactions, Solutions 181 (1995) 225

Relaxation
Hydrogen Effects, Luminescence, Rare Earth Ions 181 (1995) 283

Silica
Crystallization, Densification, Ion Irradiation, Sputtering 181 (1995) 123

Silicon
Conductivity, Hydrogen Effects, Photoinduced Effects 181 (1995) 116

Silicon Alloys
Electronic Structure, Theory 181 (1995) 135

Solar Cells
Amorphous Semiconductors, Modelling 181 (1995) 301

Sol–Gel Processes
Crystallization, Glass Ceramics, Microstructure 181 (1995) 1
Densification, Structure 181 (1995) 16
Diffusion, Glasses Containing Transition Metal Ions, Oxides 181 (1995) 49
Gap States, Lasers 181 (1995) 39
Light Scattering, Surface Analysis, Surface Reactions, Thin Films 181 (1995) 27

Solutions
Oxides, Reactions, Reduction 181 (1995) 225

Sputtering
Crystallization, Densification, Ion Irradiation, Silica 181 (1995) 123

Structure
Densification, Sol–Gel Processes 181 (1995) 16
Germanates, Hydrogen in Glass, Infra-red Absorption 181 (1995) 189
Molecular Dynamics, Phosphates 181 (1995) 175
Nitrogen, Phosphates 181 (1995) 201

Superconductors
Amorphous Alloys, Electronic Structure, Thermal Properties 181 (1995) 244

Surface Analysis
Light Scattering, Sol–Gel Processes, Surface Reactions, Thin Films 181 (1995) 27

Surface Reactions
Light Scattering, Sol–Gel Processes, Surface Analysis, Thin Films 181 (1995) 27

Theory
Electronic Structure, Silicon Alloys 181 (1995) 135
Glasses Containing Transition Metal Ions, Hopping 181 (1995) 251

Thermal Properties
Amorphous Alloys, Electronic Structure, Superconductors 181 (1995) 244
Glasses Containing Transition Metal Ions, Phase Separation, X-ray Diffraction 181 (1995) 64

Thin Films
Catalysis, Chalcogenides, Optical Properties, X-ray Diffraction 181 (1995) 70
Light Scattering, Sol–Gel Processes, Surface Analysis, Surface Reactions 181 (1995) 27

Transient Effects
Defects, Density of States, Electrical Properties and Relaxation 181 (1995) 274

XPS
Diffusion, Hydrogen Effects 181 (1995) 266

X-ray Diffraction
Catalysis, Chalcogenides, Optical Properties, Thin Films 181 (1995) 70
Glasses Containing Transition Metal Ions, Phase Separation, Thermal Properties 181 (1995) 64